

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
23 August 2018 (23.08.2018)



(10) International Publication Number  
**WO 2018/148816 A4**

(51) International Patent Classification:

*C07D 311/94* (2006.01) *A61K 31/201* (2006.01)  
*C07C 59/42* (2006.01) *A61K 31/215* (2006.01)  
*C07C 69/608* (2006.01) *A61P 37/06* (2006.01)  
*A61K 31/352* (2006.01)

(21) International Application Number:

PCT/BR2018/050037

(22) International Filing Date:

19 February 2018 (19.02.2018)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

BR1020170033180 17 February 2017 (17.02.2017) BR

(71) Applicant: **ACHÉ LABORATÓRIOS FARMACÊUTICOS S.A.** [BR/BR]; Rod. Presidente Dutra, s/nº - Km 222, Porto da Igreja, 07034-904 Guarulhos, SP (BR).

(72) Inventors: **GUIMARÃES, Cristiano Ruch Werneck**; Alameda dos Anapurus, 883, Apto 131 B, Moema, 04087-002 São Paulo, SP (BR). **VITOR, Carlos Eduardo**; Rua João Antônio de Oliveira, 544, Apto 103 Turim, Moóca, 03111-010 São Paulo, SP (BR). **PESSA, Lisandra Ravanelli**; Travessa Vila Real, 8, Vila Mariana, 04118-095 São Paulo, SP (BR). **REIS, Romulo Dragani**; Praça Marisa Marques, 44, Apto 95, Vila Rosália, 07072-080 Guarulhos, SP (BR). **MASCARELLO, Alessandra**; Rua Santa Izabel, 451, 07023-022 Guarulhos, SP (BR). **GAMA, Fernando Henrique De Souza**; Rua da Penha, 55, 07197-130 Guarulhos, SP (BR).

(74) Agent: **DANIEL ADVOGADOS**; Av. República do Chile, 230, 3º andar, Centro, 20031-170 Rio De Janeiro, RJ (BR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(88) Date of publication of the international search report:

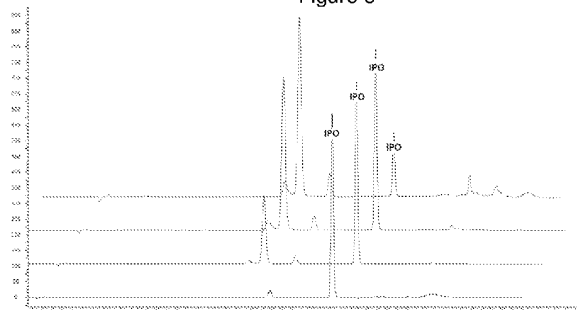
18 October 2018 (18.10.2018)

Date of publication of the amended claims:

03 January 2019 (03.01.2019)

(54) Title: PLANT EXTRACTS ENRICHED WITH IPOLAMIIDE DERIVATIVES AS IMMUNOSUPPRESSANTS FOR TREATING IMMUNOLOGICAL DISORDERS

Figure 3



(57) Abstract: The invention describes extracts from plants of the genus *Stachytarpheta* enriched with ipolamiide derivatives as immunosuppressants for treating immunological disorders. The isolated active compounds and a process of producing these are also disclosed.

WO 2018/148816 A4